MONTHLY WEATHER REVIEW,

JULY, 1877.

WAR DEPARTMENT.

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DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND ACRICULTURE.

INTRODUCTION.

The present Review for the month of July depends on all data received up to the 14th of August from the Canadian Meteorological Service, the United States Navy, the Army Post Surgeons, Voluntary Observers and the United States Signal Service. The most interesting features have been: First, The few storms reported at sea. Second, The unusually large number of tornadoes occurring the first ten days of the month. Third, The general diminution of grasshoppers and locusts, and the slight amount of damage done by them as compared with the several years previous.

BAROMETRIC PRESSURE.

In General.—The general distribution of barometric pressure for the month is shown by the isobars on chart II, from which it will be seen that the highest pressure has been off the South Atlantic and Gulf coasts, both of these districts being included in the isobar of 30.00. The pressure has diminished very regularly from the coast in a northwest direction to Dakota, where the lowest average for the month will probably be found. There has been a general deficiency of pressure in comparison with past years, which is most marked in the South Atlantic States and the least marked in the Northwest. In the Rocky Mountains the deficiency has been about .04 of an inch, and nearly the same on the Pacific slope.

Barometric Range.—The general range of the barometer over the whole country east of the Rocky Mountains was about 1.03 inches, as may be seen from the following table, which gives the maximum and minimum pressures that occur on the tri-daily maps near the centres of the respective areas of high and low barometer:

LOW AREAS.			HIGH AREAS.				
No.	Location,	Date.	Minimum Pressure,	No.	· Location.	Date.	Maximum Pressure.
H Uppe H Lowe 4V East V Lowe VI Lowe VII Mani	r Mississippi val r Missouri valley Gulf States r Missouri valley r Lakes	July 18t, 7:35 a, m. July 2at, 4:35 p, m July 6th, 4:35 p, m July 10th, 4:35 p, m July 14th, 4:35 p, m July 14th, 4:35 p, m July 27th, 4:35 p, m July 27th, 4:35 p, m	20.45 29.56 20.46 29.80 20.28 29.48 29.53 29.27	III IV V VI VII	South Atlantic States Norfolk	July 8th, 7:35 a. m July 15th, 7:35 a. m July 23rd, 7:35 a. m July 28th, 7:35 a. m July 28th, 7:35 a. m	30.15 30.14 30.30 30.17 30.16

The greatest local barometric ranges have been as follows: 0.94 at Bismarck and North Platte; 0.86 at Alpena, and 0.82 at Escanaba.

The least local barometric ranges have been: 0.29 at Galveston; 0.32 at Indianola; 0.35 at New Orleans, Vicksburg, Memphis and Mobile.